

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P562572

Luminaire Tested: **SQ4-PC3-025U-100D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562572
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-025U-100D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

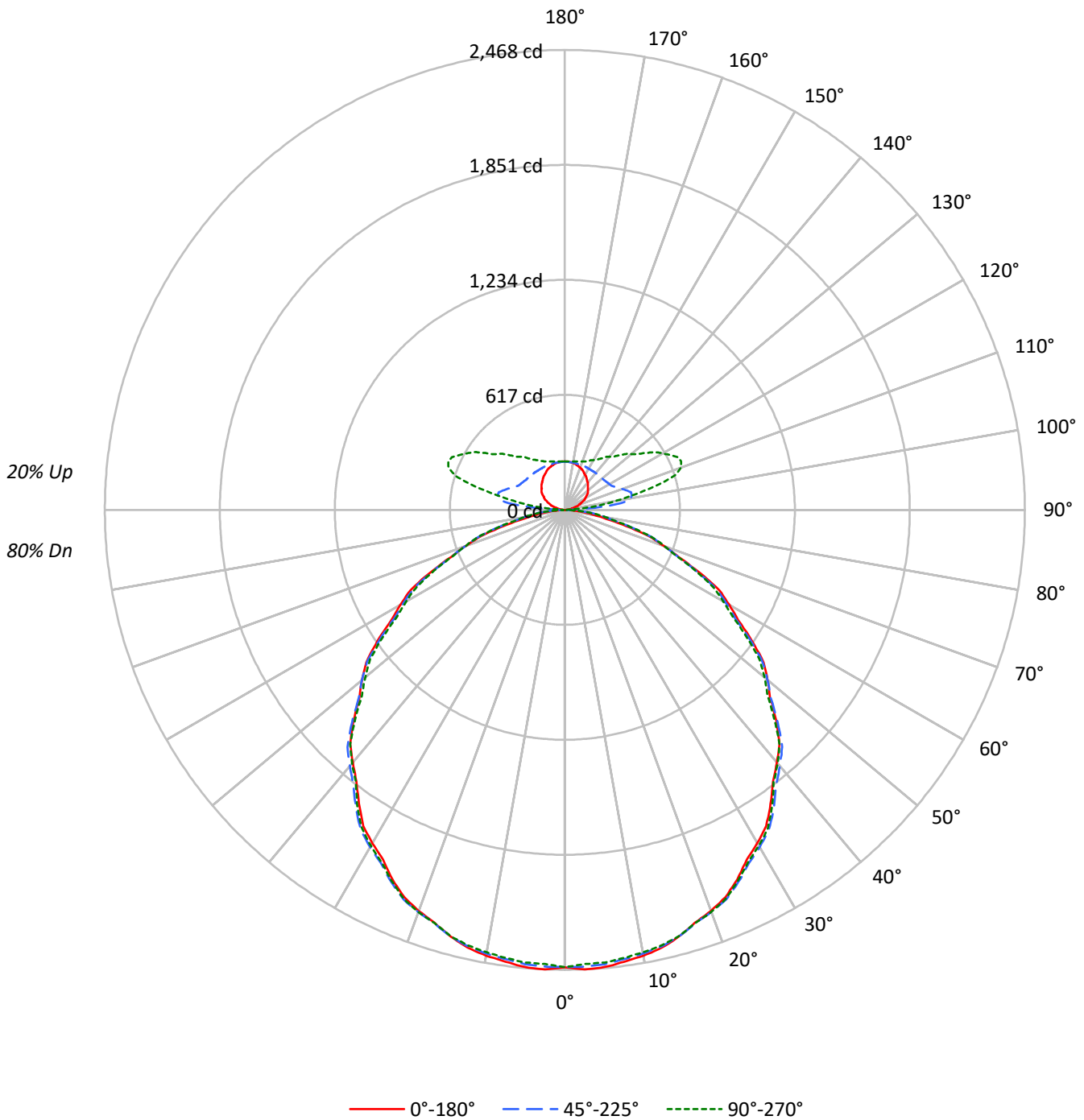
Lumens per Lamp: N/A
Luminaire Lumens: 8377.3 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 82.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	84	84	84	80
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	72	71	68
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57
3	87	77	69	63	83	74	67	61	68	62	58	63	58	54	58	54	51	48
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44	41
5	73	61	52	46	70	59	51	45	54	48	43	50	45	40	46	42	38	36
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	34	31
7	63	50	41	35	60	48	40	34	45	38	33	41	36	31	38	34	30	28
8	58	45	37	31	56	44	36	31	41	34	29	38	32	28	35	30	27	25
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24	22
10	51	38	30	25	49	37	30	25	35	28	24	32	27	23	30	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11321	11321	11321
5°	11406	11332	11290
10°	11378	11325	11293
15°	11318	11318	11307
20°	11244	11277	11277
25°	11137	11218	11184
30°	11002	11135	11087
35°	10838	11005	10928
40°	10659	10809	10700
45°	10466	10539	10376
50°	10192	10192	10029
55°	9868	9741	9594
60°	9391	9203	9056
65°	8681	8508	8432
70°	7600	7661	7631
75°	6115	6764	6803
80°	4346	5736	5794
85°	2646	4811	4811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.2	2.8
10°-20°	666.5	8.0
20°-30°	1009.3	12.0
30°-40°	1210.0	14.4
40°-50°	1233.8	14.7
50°-60°	1077.0	12.9
60°-70°	771.0	9.2
70°-80°	397.1	4.7
80°-90°	101.8	1.2
90°-100°	126.2	1.5
100°-110°	331.8	4.0
110°-120°	344.1	4.1
120°-130°	276.0	3.3
130°-140°	216.6	2.6
140°-150°	166.2	2.0
150°-160°	119.7	1.4
160°-170°	73.2	0.9
170°-180°	24.7	0.3
0°-30°	1908.0	22.8
0°-40°	3118.0	37.2
0°-60°	5428.7	64.8
0°-90°	6698.7	80.0
90°-120°	802.1	9.6
90°-150°	1460.9	17.4
90°-180°	1679.0	20.0
0°-180°	8377.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2454	2454	2454	2454	2454	
5°	2463	2439	2447	2440	2438	234
15°	2370	2350	2370	2370	2368	668
25°	2188	2173	2204	2197	2197	1007
35°	1925	1920	1954	1940	1940	1204
45°	1604	1600	1616	1595	1590	1235
55°	1227	1211	1211	1193	1193	1094
65°	795	778	779	772	772	787
75°	343	359	380	382	382	371
85°	50	77	91	93	91	68
90°	2	5	13	7	7	3
95°	17	65	218	112	76	19
105°	60	91	367	557	520	63
115°	106	129	294	586	669	105
125°	148	166	267	452	533	131
135°	176	194	259	365	413	136
145°	204	217	256	311	335	128
155°	231	237	256	281	289	106
165°	249	252	256	266	269	70
175°	259	259	257	261	261	25
180°	259	259	259	259	259	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2454.0	2454.0	2454.0	2454.0	2454.0
2.5°	2468.5	2447.2	2454.0	2448.3	2439.4
5°	2463.1	2438.6	2447.2	2440.3	2438.1
7.5°	2445.3	2420.9	2432.2	2427.6	2425.3
10°	2429.0	2404.5	2417.6	2413.0	2410.8
12.5°	2407.2	2384.5	2399.4	2394.9	2394.4
15°	2369.9	2349.9	2369.9	2369.9	2367.6
17.5°	2323.1	2304.9	2326.3	2327.6	2326.3
20°	2290.4	2270.4	2297.2	2295.0	2297.2
22.5°	2250.4	2233.9	2262.7	2256.8	2259.0
25°	2188.1	2172.6	2204.0	2197.2	2197.2
27.5°	2114.5	2103.4	2137.7	2130.4	2130.4
30°	2065.4	2054.3	2090.4	2081.3	2081.3
32.5°	2010.9	2003.3	2037.7	2026.8	2026.8
35°	1924.6	1920.1	1954.1	1940.5	1940.5
37.5°	1835.5	1831.5	1862.3	1845.8	1840.5
40°	1770.0	1767.8	1795.0	1776.9	1776.9
42.5°	1704.6	1702.4	1726.0	1704.1	1704.1
45°	1604.2	1599.7	1615.5	1595.0	1590.5
47.5°	1494.7	1490.2	1500.1	1477.8	1475.6
50°	1420.1	1415.7	1420.1	1399.6	1397.4
52.5°	1343.8	1335.8	1336.5	1316.0	1315.6
55°	1227.0	1211.4	1211.1	1192.9	1192.9
57.5°	1103.4	1082.9	1084.7	1069.2	1067.0
60°	1017.9	995.7	997.5	983.8	981.6
62.5°	934.3	908.6	913.9	898.4	898.0
65°	795.3	777.5	779.4	772.5	772.5
67.5°	661.7	645.2	657.1	651.7	651.2
70°	563.5	552.4	568.0	568.0	565.8
72.5°	472.6	472.2	491.7	491.7	493.1
75°	343.1	358.7	379.5	381.7	381.7
77.5°	229.0	256.6	279.5	280.4	279.9
80°	163.6	194.7	215.9	220.4	218.1
82.5°	110.9	143.8	161.3	165.8	163.6
85°	50.0	76.6	90.9	93.1	90.9
87.5°	14.9	31.5	39.0	37.6	34.0
90°	1.7	4.9	13.3	6.6	6.6
92.5°	7.0	33.6	74.4	32.9	21.2
95°	16.6	65.3	217.5	112.1	76.4
97.5°	28.9	71.7	325.4	258.8	190.6
100°	38.2	77.1	358.6	363.4	282.2
102.5°	46.2	82.5	367.9	452.6	383.1
105°	59.8	90.6	366.9	556.9	519.6
107.5°	73.7	102.3	346.0	611.1	620.2
110°	83.0	109.0	328.7	625.1	664.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.3	117.0	312.8	616.3	676.0
115°	106.2	129.0	293.8	586.2	669.0
117.5°	119.9	140.6	280.9	544.6	636.5
120°	127.8	147.3	275.6	516.7	605.9
122.5°	135.8	155.3	271.6	488.7	576.7
125°	147.7	165.6	267.3	451.7	532.9
127.5°	157.4	175.6	263.6	421.9	490.4
130°	162.7	182.2	262.3	403.2	466.5
132.5°	168.0	187.5	261.0	387.1	443.9
135°	176.0	193.8	259.0	364.7	413.4
137.5°	184.3	201.8	258.6	347.9	387.8
140°	190.9	207.1	257.3	334.5	371.9
142.5°	196.2	211.2	257.3	325.1	357.3
145°	204.2	217.2	255.7	311.0	335.3
147.5°	212.2	224.8	255.7	299.3	319.4
150°	217.5	228.8	255.7	292.5	308.8
152.5°	222.8	231.5	255.7	287.1	299.5
155°	230.8	237.2	255.7	280.7	288.9
157.5°	236.7	242.9	255.7	275.0	280.9
160°	240.7	245.6	255.7	272.3	275.6
162.5°	244.7	248.3	255.7	269.7	272.9
165°	249.0	252.3	255.7	265.7	268.9
167.5°	253.0	254.6	257.3	264.0	265.3
170°	255.7	257.3	257.3	264.0	264.0
172.5°	257.0	257.3	257.3	262.6	261.3
175°	259.0	259.0	257.3	260.6	260.6
177.5°	259.0	259.0	257.6	260.3	259.0
180°	259.0	259.0	259.0	259.0	259.0

(END OF REPORT)